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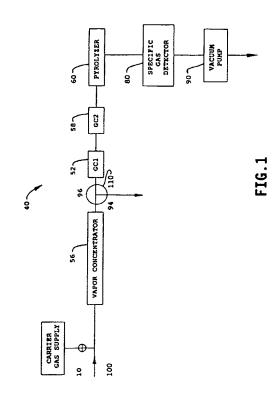
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(54) Selective, high speed detection of vapors with analysis of multiple GC-separated portions.

Disclosed are a method and apparatus for selective, high speed detection of vapours of gas-chromatographically separable specific compounds. In the disclosed method separate analyses are performed on two portions of a gas sample formed by flash-heating trapped vapours to successively higher temperatures while flowing hydrogen carrier gas over coatings in/on which the vapours are held. Within a total time interval of about twenty seconds, (1) two sample portions are formed (56), (2) each portion is rapidly separated in two seriesconnected. high speed, temperature-programmed gas chromatographs (52,58), and (3) specific compounds are identified by detection (60,80) of NO gas formed during an oxidative pyrolysis of each separated portion. One application of the described method and apparatus is the rapid, selective, and sensitive detection of nitrogen-containing compounds such as the drugs methamphetamine, cocaine, and heroin.



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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 4547

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X : partic Y : partic docur A : techn	ATEGORY OF CITED DOCUMENTS cultarly relevant if taken alone cultarly relevant if combined with another ment of the same category ological background written disclosure	T: theory or principl E: earlier patent doc after the filling di D: document cited it L: document cited fo	is underlying the i cument, but publis ate a the application or other reasons	hed on, or

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